

FIG. 1

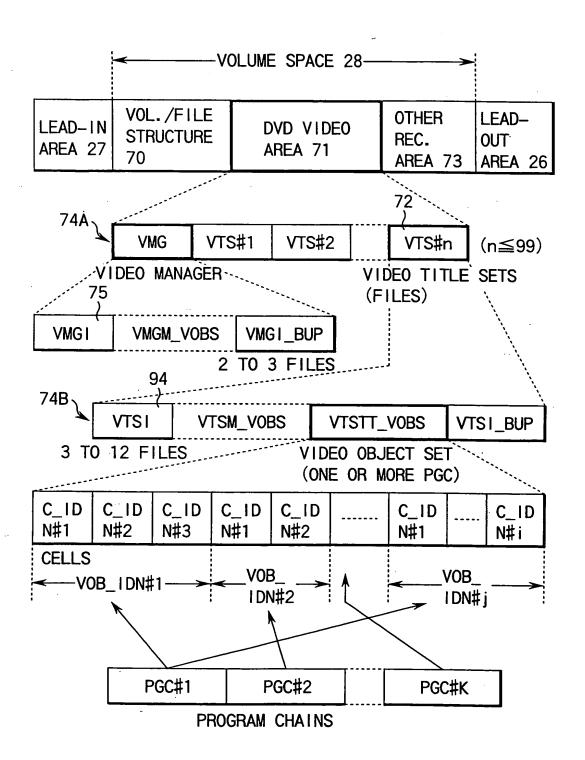


FIG. 2

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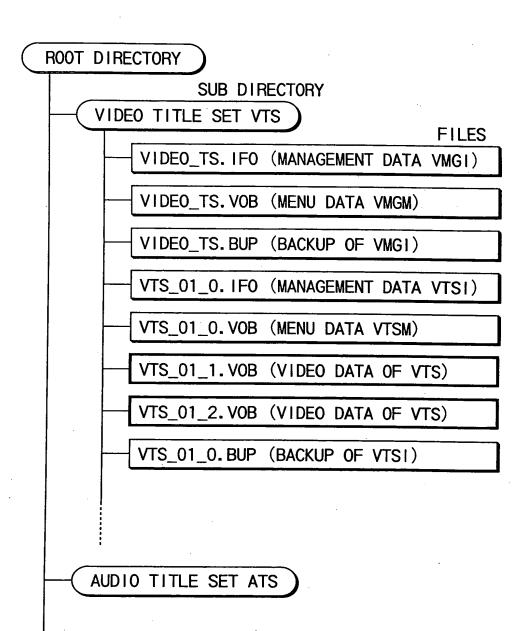
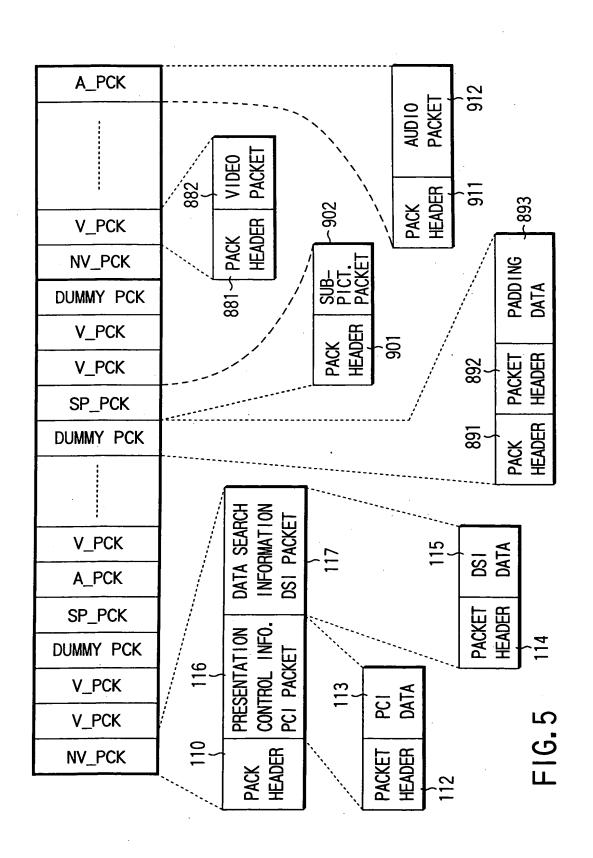


FIG. 3

| : | | | VIDEO OBJECT VOB_IDN#j | | CELL (C_IDN#i) | | VIDEO OBJECT UNIT VOBU | | A_PCK | RE TWO TYPES OF VOBU; ONE WITH NV_PCK, & THE OTHER WITHOUT NV_PCK) |
|----|------------------------------------|----|---------------------------|--------|----------------|----|---------------------------|-----|-----------|--|
| | | | | | | | | 98~ | NV_PCK | E OT |
| | OBS) | | | | | | | | DUMMY PCK | ₩ ₩ |
| | >_ | | | | | | • | | V_PCK | 첮 |
| | (VTS | | | | | | 5 | | V_PCK | ≥ |
| | OBS | | | | | | VIDEO OBJECT UNIT VOBU | | SP_PCK | M H |
| | ET V | İ | | | | | VIDEO OBJ UNIT VOBU | | DUMMY PCK | S |
| | VIDEO OBJECT SET VOBS (VTSTT_VOBS) | | C1 | | CELL (C_IDN#2) | | | | | F VOBU; |
| | DE0 | | VIDEO OBJECT VOB_IDN#2 | | ELL | | VIDEO OBJECT UNIT VOBU | | V_PCK | ES 0 |
| | \ | | VIDEO OBJI VOB_IDN#2 | | 3 | | VIDEO OBJ UNIT VOBU | 91 | A_PCK | TYP |
| | | | 0/ | | (| | 5 5 | 96 | SP_PCK | OM. |
| | | | CT | : | DN#1 | | CT | 867 | DUMMY PCK | ¥ |
| | | | OBJE N#1 | | (C_IDN#1) | | OBJE OBU | | V_PCK | 黑 |
| 48 | ` | 83 | VIDEO OBJECT VOB_IDN#1 | % ~ | CELL | 85 | VIDEÓ OBJECT UNIT VOBU | 88- | · V_PCK | (NOTE: THERE |
| | | |) | | | | > 5 | 98 | NV_PCK | .ON) |

F16.4



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CONTENTS OF PRESENTATION CONTROL INFORMATION PCI

| SYMBOL | CONTENTS |
|------------|-----------------------------|
| PCI_GI | PC! GENERAL INFORMATION |
| NSML_AGL I | ANGLE INFO. FOR NONSEAMLESS |
| HLI | HIGHLIGHT INFORMATION |
| RECI | RECORDING INFORMATION |

FIG.6

CONTENTS OF PRESENTATION CONTROL INFORMATION GENERAL INFORMATION PCI_GI

| SYMBOL | CONTENTS |
|---------------|---|
| NV_PCK_LBN | LOGICAL BLOCK NUMBER OF NAVIGATION PACK |
| VOBU_CAT | CATEGORY OF VOBU |
| RESERVED | RESERVED |
| VOBU_UOP_CTL | USER OPERATION CONTROL OF VOBU |
| VOBU_S_PTM | START PTM OF VOBU |
| VOBU_E_PTM | END PTM OF VOBU |
| VOBU_SE_E_PTM | END PTM OF SEQUENCE END IN VOBU |
| C_ELTM | CELL ELAPSE TIME |
| RESERVED | RESERVED |

FIG.7

VIDEO TITLE SET VIDEO TITLE SET INFO. VTS 72 (FILE 74B) MANAGEMENT TABLE VIDEO TITLE SET VTSI MAT - 94 VIDEO TITLE SET PART INFO. VTSI OF_TITLE SEARCH POINTER VIDEO OBJECT SET TABLE VTS PTT SRPT FOR VIDEO TITLE VIDEO TITLE SET PROGRAM SET MENU CHAIN INFORMATION TABLE VTSM_VOBS VTS PGCIT VIDEO OBJECT SET VIDEO TITLE SET MENU FOR VIDEO TITLE PGCI UNIT TABLE SET TITLE VTSM PGCI UT VTSTT_V0BS VIDEO TITLE SET BACKUP OF VIDEO TIME MAP TABLE TITLE SET INFO. VTS TMAPT VTSI_BUP VIDEO TITLE SET MENU CELL ADDRESS TABLE VTSM_C_ADT VIDEO TITLE SET MENU VIDEO OBJECT UNIT ADDRESS MAP VTSM VOBU ADMAP VIDEO TITLE SET CELL

FIG.8

ADDRESS TABLE

VIDEO TITLE SET VIDEO
OBJECT UNIT ADDRESS
MAP VTS_VOBU_ADMAP

VTS_C_ADT

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VIDEO TITLE SET INFO. VTSI 94

| VIDEO TITLE SET INFO. VIST | 94 |
|----------------------------|----|
| VIDEO TITLE SET INFO. | |
| MANAGEMENT TABLE | |
| VTSI_MAT | |
| VIDEO TITLE SET PART_ | |
| OF_TITLE SEARCH POINTER | |
| TABLE VTS_PTT_SRPT | |
| VIDEO TITLE SET PROGRAM | |
| CHAIN INFORMATION TABLE | |
| VTS_PGCIT | |
| VIDEO TITLE SET MENU | |
| PGCI UNIT TABLE | |
| VTSM_PGCIT_UT | |
| VIDEO TITLE SET | |
| TIME MAP TABLE | |
| VTS_TMAPT | |
| VIDEO TITLE SET MENU | |
| CELL ADDRESS TABLE | |
| VTSM_C_ADT | |
| VIDEO TITLE SET MENU | |
| VIDEO OBJECT UNIT | |
| ADDRESS MAP | |
| VTSM_VOBU_ADMAP | |
| VIDEO TITLE SET CELL | |
| ADDRESS TABLE | |
| VTS_C_ADT | |
| VIDEO TITLE SET VIDEO | |
| OBJECT UNIT ADDRESS | |
| MAP VTS_VOBU_ADMAP | |

VIDEO TITLE SET PROGRAM CHAIN INFO. TABLE INFORMATION VTS_GCITI VIDEO TITLE SET PROGRAM CHAIN INFO. SEARCH POINTER #1 VTS_PGCI_SRP#1 VIDEO TITLE SET PROGRAM CHAIN INFO. SEARCH POINTER #n VTS_PGCI_SRP#n VIDEO TITLE SET PROGRAM CHAIN INFO. VTS PGC I VIDEO TITLE SET PROGRAM CHAIN INFO. VTS_PGC1

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STRUCTURE OF PROGRAM CHAIN INFO. PGCI

| PROGRAM CHAIN GENERAL INFO. PGC_GI |
|--------------------------------------|
| PROGRAM CHAIN COMMAND TABLE PGC_CMDT |
| PROGRAM CHAIN PROGRAM MAP PGC_PGMAP |
| CELL PLAYBACK INFO. TABLE C_PBIT |
| CELL POSITION INFO. TABLE C_POSIT |

FIG. 10

CONTENTS OF CELL PLAYBACK INFO. TABLE C_PBIT

| | <u> </u> |
|-------|-------------------------------------|
| | CELL PLAYBACK INFO. #1 (C PBI#1) |
| | (C_FDI#I) |
| | CELL PLAYBACK INFO. #2 (C_PBI#2) |
| | |
| - - | i , |
| | CELL PLAYBACK INFO. #n (C_PBI#n) |

FIG. 11

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CONTENTS OF CELL PLAYBACK INFORMATION C_PBI

| SYMBOL | CONTENTS |
|------------|--|
| C_CAT | CELL CATEGORY |
| C_PBTM | CELL PLAYBACK TIME |
| C_FVOBU_SA | START ADR. OF 1ST VOBU IN CELL |
| C_FILVU_EA | END ADR. OF 1ST ILVU IN CELL |
| C_LVOBU_SA | START ADR. OF LAST VOBU IN CELL |
| C_LVOBU_EA | END ADR. OF LAST VOBU IN CELL |
| CELL TYPE | ERASION LEVEL FLAG 00h=PLAYBACK IS PERMITTED & AUTOMATIC ERASION IS PROHIBITED 01h=PLAYBACK IS PERMITTED & AUTOMATIC ERASION IS PROHIBITED |

FIG. 12

| 1 | b31 b30 | CON b29 b28 | ITENTS OF b27 | CELL CATEGO b26 | DRY C_CAT b25 | h 04 |
|---|-----------------------|-----------------------|------------------------------|---------------------|------------------|----------------------------------|
| | CELL BLOCK MODE | CELL BLOCK TYPE | SEAMLESS PLAYBACK FLAG | INTER- | STS DISCONTI | b24 SEAMLESS ANGLE CHANGE FLAG |
| | b23 | b2 | 22 | b21 b2 | 20 | b16 |
| { | RESERVE | D CELL BACK | | CESS STRICTION F | LAG | CELL TYPE |
| | b15 | | | | | b8 |
| | | | CELL | STILL TIME | | · |
| | b7 | · | | | | b0 |
| | CELL COMMAND NUMBER | | | | | |

FIG. 13

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CONTENTS OF PROGRAM CHAIN GENERAL INFO. PGC_GI

| | |
|---------------|-------------------------------------|
| SYMBOL | CONTENTS |
| PGC_CNT | PGC CONTENTS |
| PGC_PB_TM | PGC PLAYBACK TIME |
| PGC_UOP_CTL | PGC USER OPERATION CONTROL |
| PGC_AST_CTLT | PGC AUDIO STREAM CONTROL TABLE |
| PGC_SPST_CTLT | PGC SUB-PICT. STREAM CONTROL TABLE |
| PGC_NV_CTL | PGC NAVIGATION CONTROL |
| PGC_SP_PLT | PGC SUB-PICTURE PALETTE |
| PGC_CMDT_SA | START ADR. OF PGC COMMAND TABLE |
| PGC_PGMAP_SA | START ADR. OF PROGRAM MAP |
| C_PBIT_SA | START ADR. OF CELL PLAYBACK TABLE |
| C_POSIT_SA | START ADR. OF CELL POS. INFO. TABLE |

FIG. 14

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CONTENTS OF PGC GENERAL INFO. PGC_GI FOR TRASH PGC

| SYMBOL | CONTENTS |
|---------------|---|
| PGC_CNT | PGC CONTENTS |
| PGC_PB_TM | PGC PLAYBACK TIME |
| PGC_UOP_CTL | PGC USER OPERATION CONTROL |
| PGC_AST_CTLT | PGC AUDIO STREAM CONTROL TABLE |
| PGC_SPST_CTLT | PGC SUB-PICT. STREAM CONTROL TABLE |
| PGC_NV_CTL | PGC NAVIGATION CONTROL |
| PGC_SP_PLT | PGC SUB-PICTURE PALETTE |
| PGC_CMDT_SA | START ADR. OF PGC COMMAND TABLE |
| PGC_PGMAP_SA | START ADR. OF PROGRAM MAP |
| C_PBIT_SA | START ADR. OF CELL PLAYBACK TABLE |
| C_POSIT_SA | START ADR. OF CELL POS. INFO. TABLE |
| TRASH_PGC_FLG | TRASH PGC FLAG 01h=TRASH PGC 00h=CONVENTIONAL PGC |

FIG. 15

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CONTENTS OF C_PBI FOR TRASH PGC

| SYMBOL | CONTENTS |
|------------|---|
| C_CAT | PGC CATEGORY |
| C_PBTM | PGC PLAYBACK TIME |
| C_FV0BU_SA | START ADR. OF 1ST VOBU IN CELL |
| C_FILVU_EA | END ADR. OF 1ST ILVU IN CELL |
| C_LV0BU_SA | START ADR. OF LAST VOBU IN CELL |
| C_LV0BU_EA | END ADR. OF LAST VOBU IN CELL |
| PGC_N | ORIGINAL PGC NUMBER OF CURRENT CELL |
| C_ID_N | CORRESPONDING CELL NUMBER OF ORIGINAL PGC |

FIG. 16

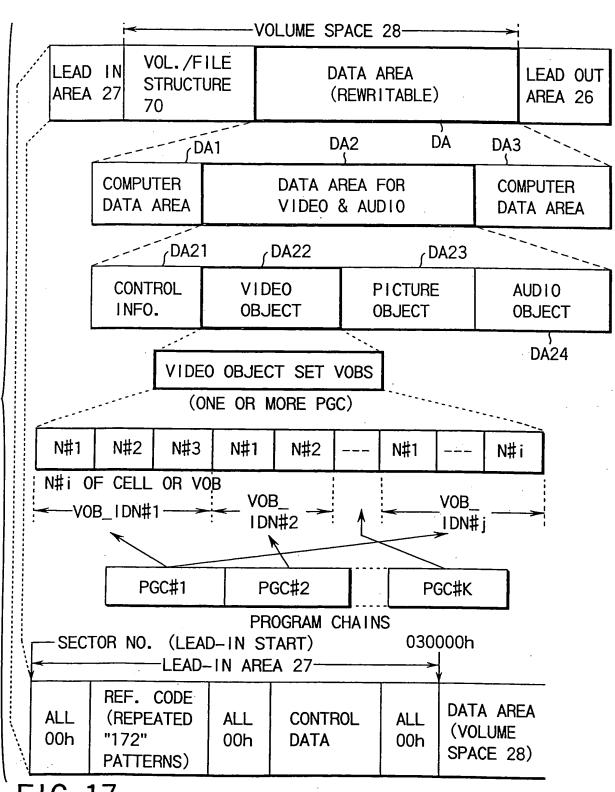


FIG. 17

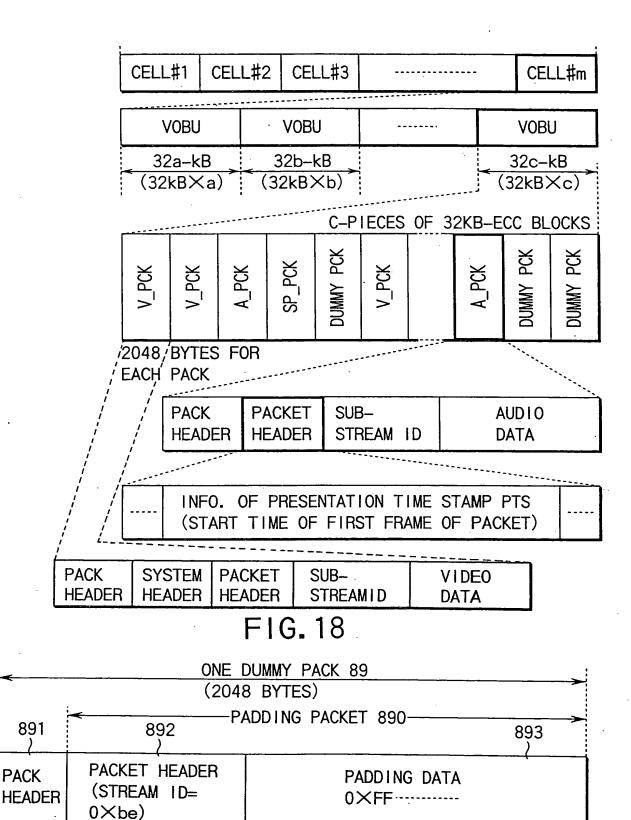


FIG. 19

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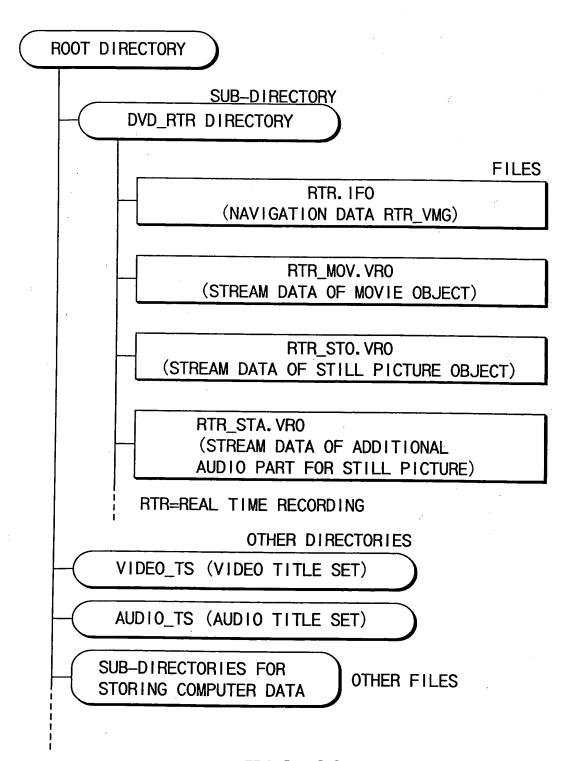


FIG. 20

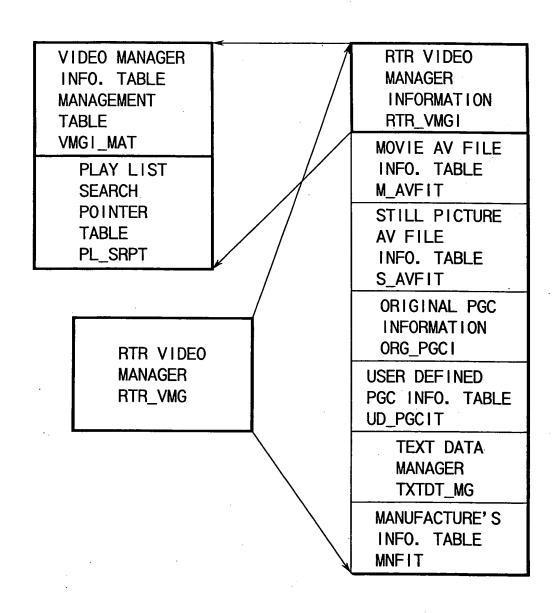


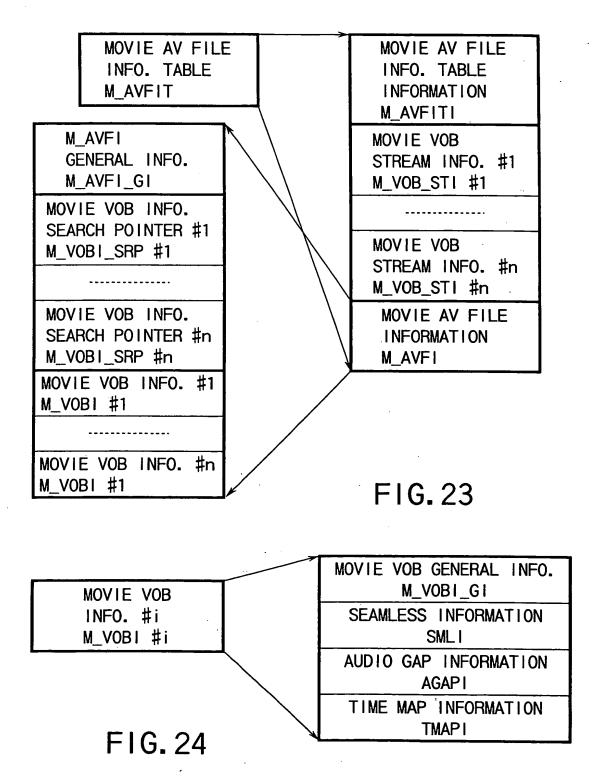
FIG. 21

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CONTENTS OF VMGI_MAT

| FIELD NAME | CONTENTS |
|-------------|--|
| VMG_1D | VMG IDENTIFIER |
| RTR_VNG_EA | END ADDRESS OF RTR_VMG |
| RESERVED | RESERVED |
| VMGI_EA | END ADDRESS OF VMGI |
| VERN | VERSION NUMBER OF DVD SPEC. FOR VIDEO RECORDING |
| RESERVED | RESERVED |
| TM_ZONE | TIME ZONE |
| STILL_TM | STILL TIME FOR STILL PICTURES |
| CHRS | CHARACTER SET CODE FOR PRIMARY TEXT |
| RSM_MRK1 | RESUME MARKER INFORMATION |
| REP_PICTI | DISC REPRESENTATIVE PICTURE INFORMATION |
| RESERVED | RESERVED |
| M_AVFIT_SA | START ADDRESS OF M_AVFIT |
| S_AVFIT_SA | START ADDRESS OF S_AVFIT |
| RESERVED | RESERVED |
| ORG_PGCI_SA | START ADDRESS OF ORG_PGC1 |
| UD_PGCIT_SA | START ADDRESS OF UD_PGCIT |
| TXTDT_MG_SA | START ADDRESS OF TXTDT_MG |
| MNFIT_SA | START ADDRESS OF MNFIT |
| RESERVED | RESERVED |

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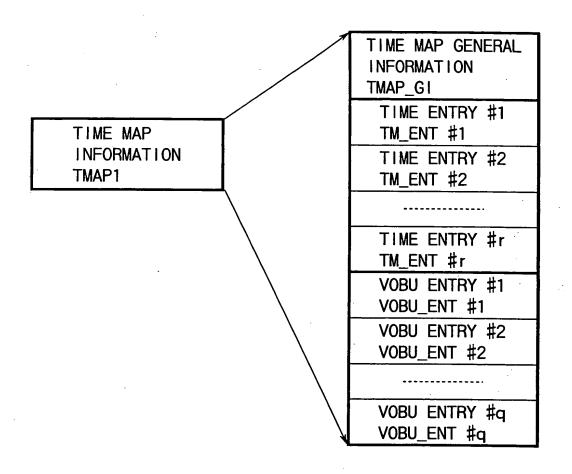


FIG. 25

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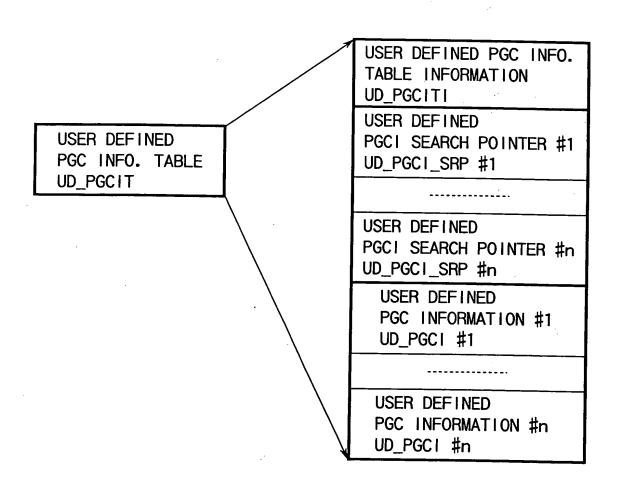


FIG. 26

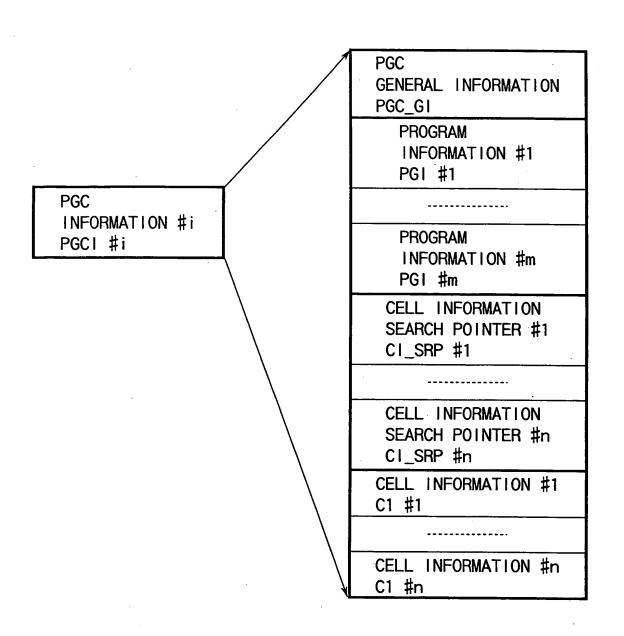


FIG. 27

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CONTENTS OF PGC_GI

| FIELD NAME | CONTENTS | | |
|---------------|---|--|--|
| RESERVED | RESERVED | | |
| PG_Ns | NUMBER OF PROGRAMS | | |
| C1_SRP_Ns | NUMBER OF CI SEARCH POINTERS | | |
| TRASH_PGC_FLG | TRASH PGC FLAG 01h=TRASH PGC 00h=CONVENTIONAL PGC | | |

FIG. 28

CONTENTS OF PGI

| FIELD NAME | CONTENTS | | | |
|-------------|--------------------------------------|--|--|--|
| RESERVED | RESERVED | | | |
| PG_TY | PROGRAM TYPE | | | |
| C_Ns | NUMBER OF CELLS IN PROGRAM | | | |
| PRM_TXT1 | PRIMARY TEXT INFORMATION | | | |
| IT_TXT_SRPN | ITEM TEXT SRP NUMBER | | | |
| THM_PTRI | M_PTRI THUMBNAIL POINTER INFORMATION | | | |

FIG. 29

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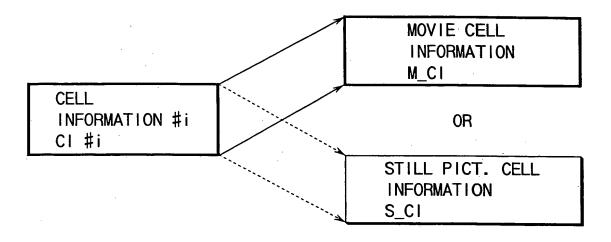


FIG. 30

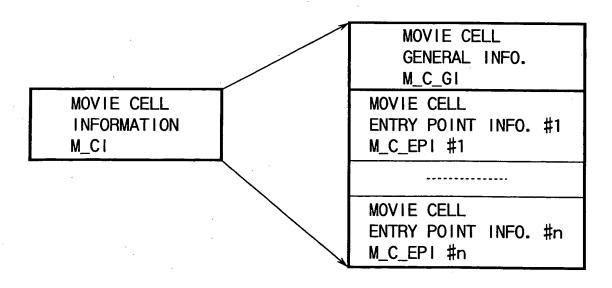


FIG. 31

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CONTENTS OF M_C_GI

| FIELD NAME | CONTENTS | | |
|-------------|----------------------------------|--|--|
| RESERVED | RESERVED | | |
| C_TY | CELL TYPE | | |
| M_VOBI_SRPN | MOVIE VOBI SRP NUMBER | | |
| C_EPI_Ns | NUMBER OF CELL ENTRY POINT INFO. | | |
| C_V_S_PTM | PRESENTATION START TIME OF CELL | | |
| C_V_E_PTM | PRESENTATION END TIME OF CELL | | |

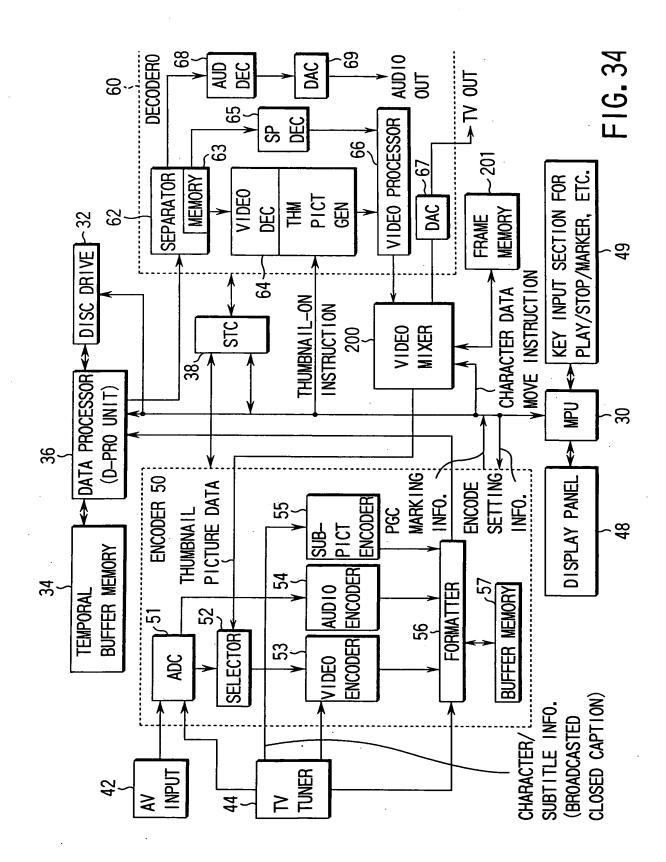
FIG. 32

CONTENTS OF M_C_EPI

| | | | | · | | |
|---|------------|--------------------------|-------------------------------------|----------|--|--|
| | FIELD NAME | CONTENTS | | TS | | |
| | EP_TY | ENTRY POINT TYPE | | T TYPE | | |
| | EP_PTM | PTM OF ENTRY POINT | | RY POINT | | |
| | PRM_TXT1 | PRIMARY TEXT INFORMATION | | | | |
| | | | | | | |
| ERASION LEVEL FLAG | | | NFORMATION TYPE | | | |
| TRASH PGC INFORMATION | | Ī | NFORMATION DATE | | | |
| ORIGINAL PGC NUMBER PGC_N & CORRESPONDING CELL NUMBER C_ID_N OF | | | CHARACTER INFO. (CONTENTS INFO.) | | | |
| ORIGINAL PGC) | | | | | | |

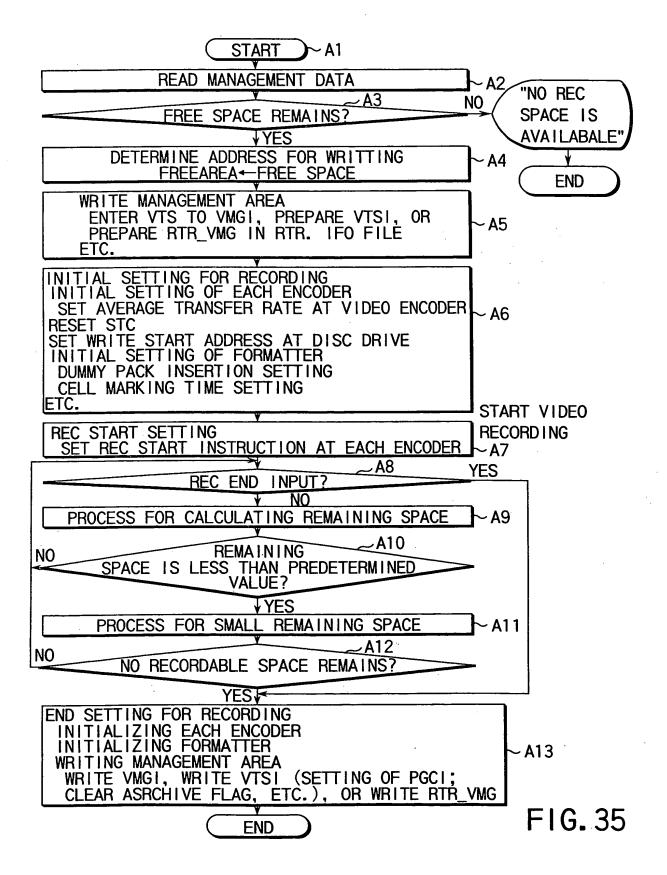
FIG. 33



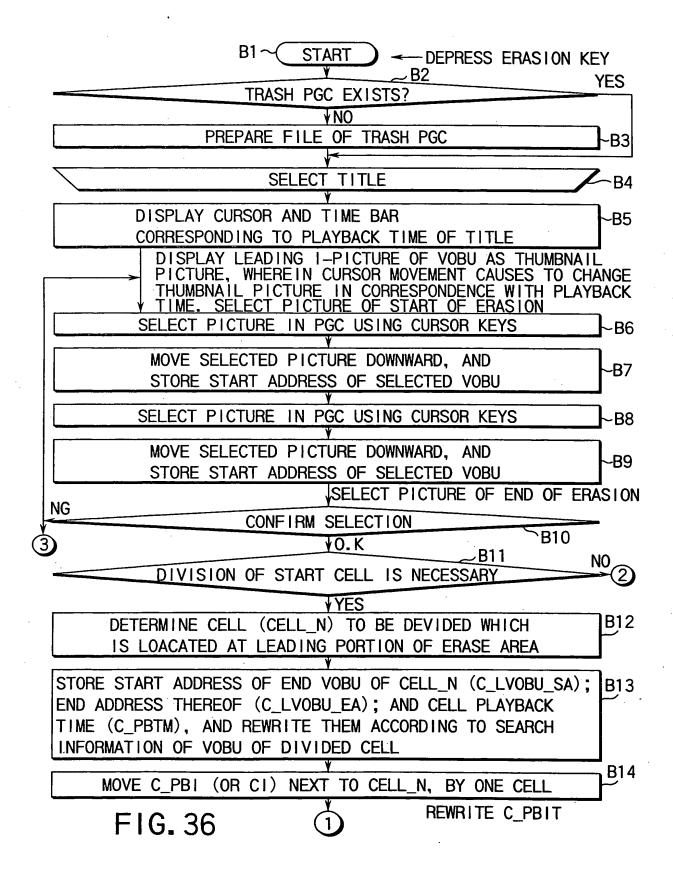


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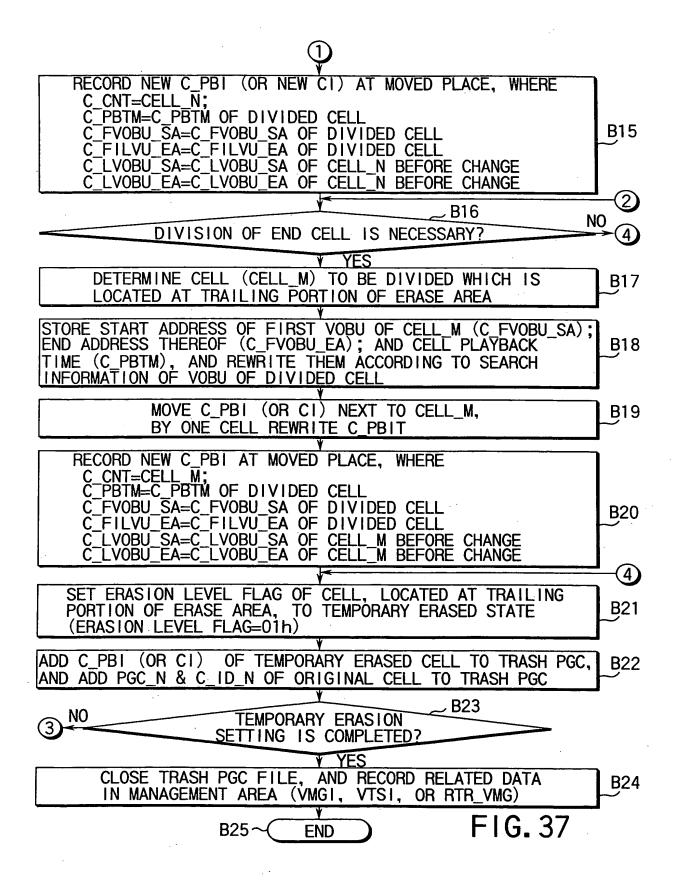


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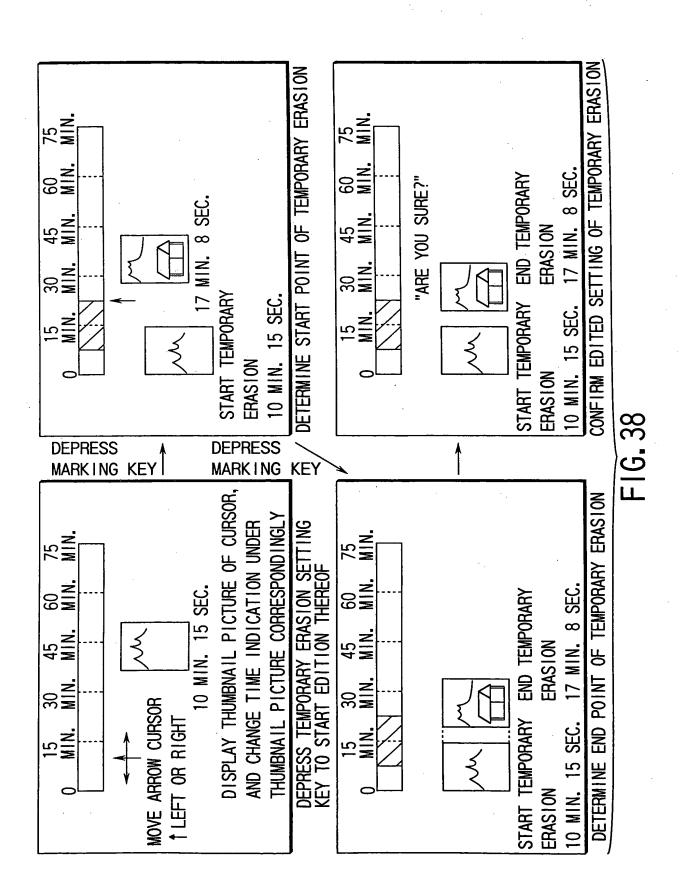


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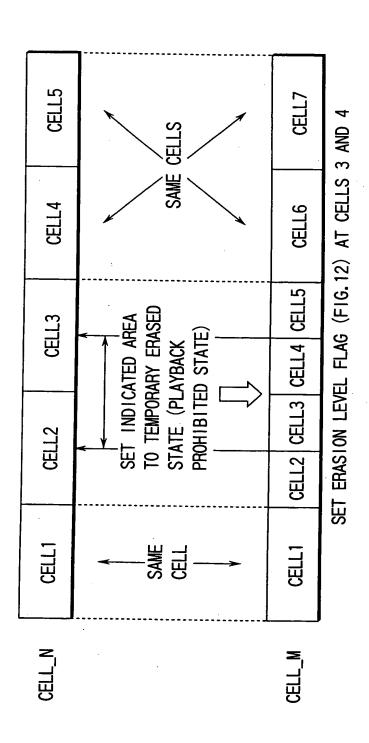
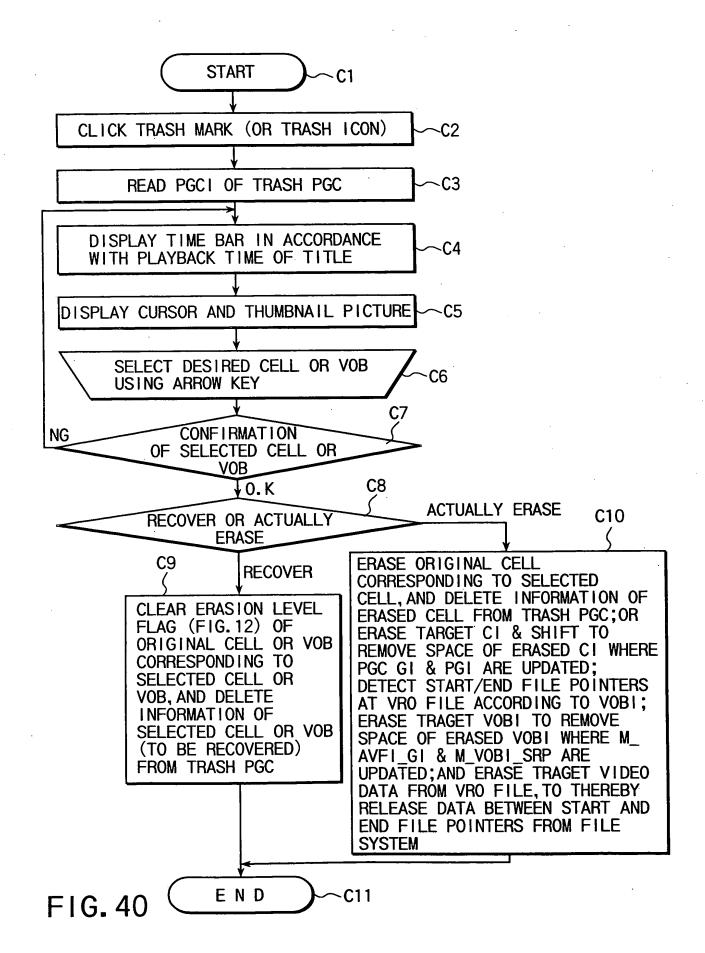
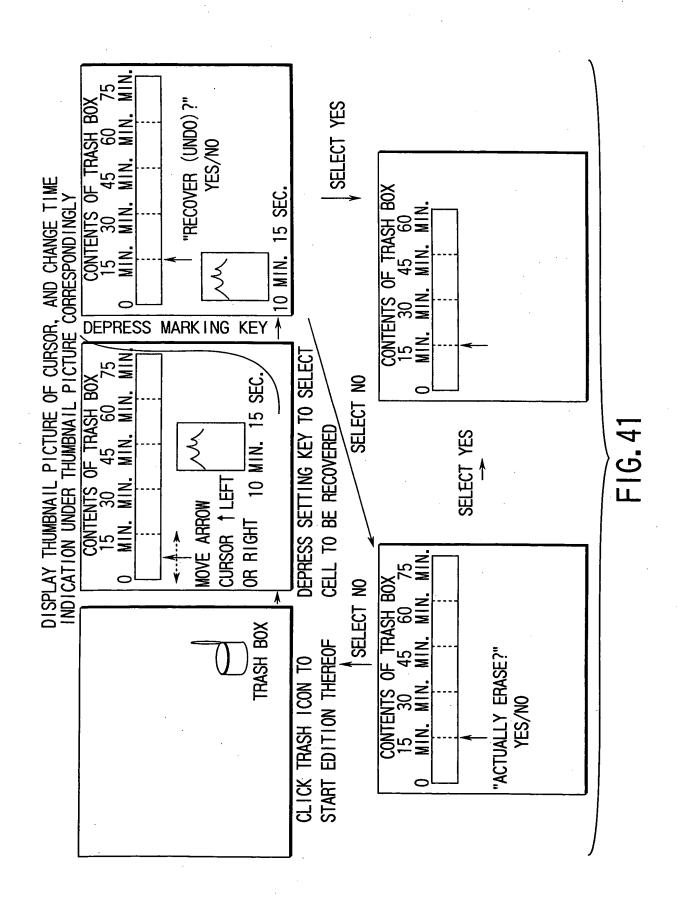
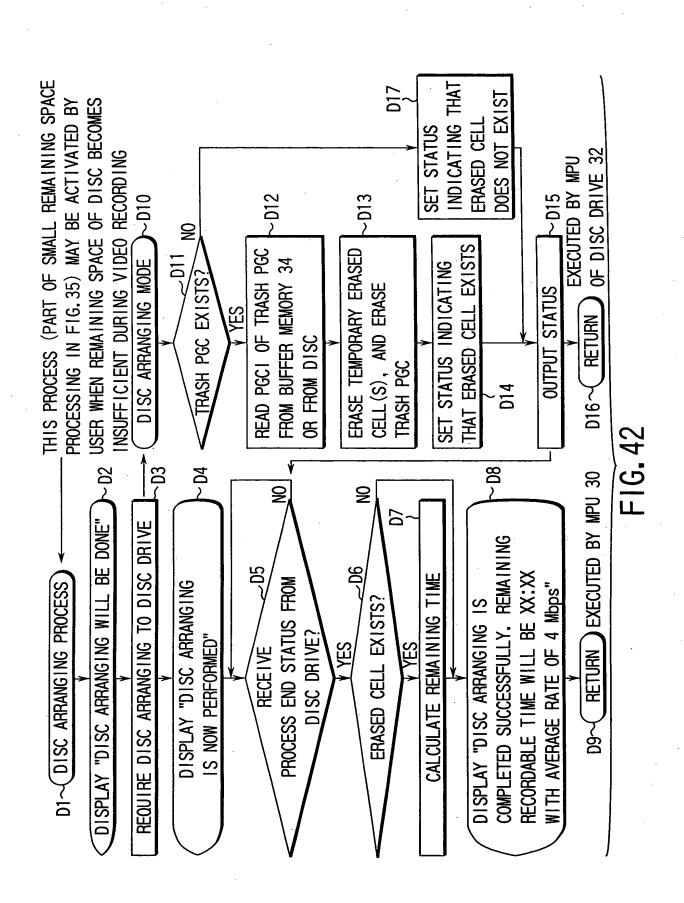


FIG. 39

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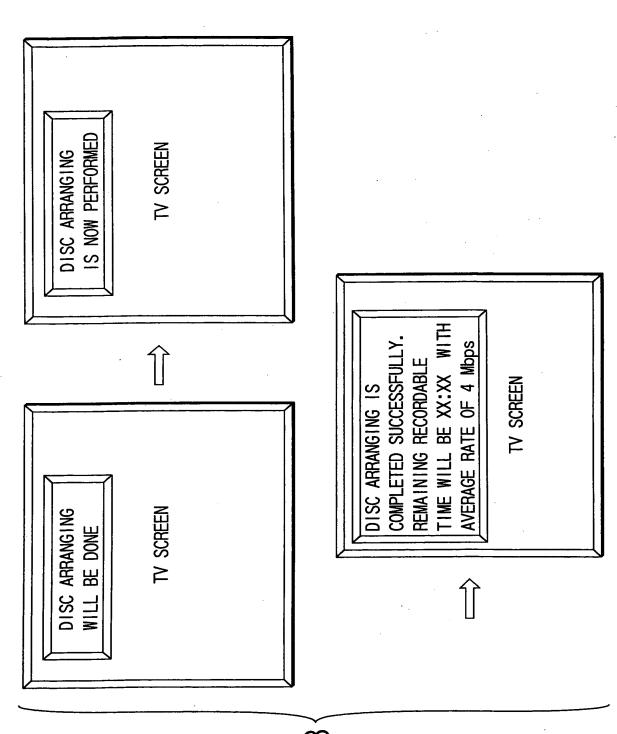
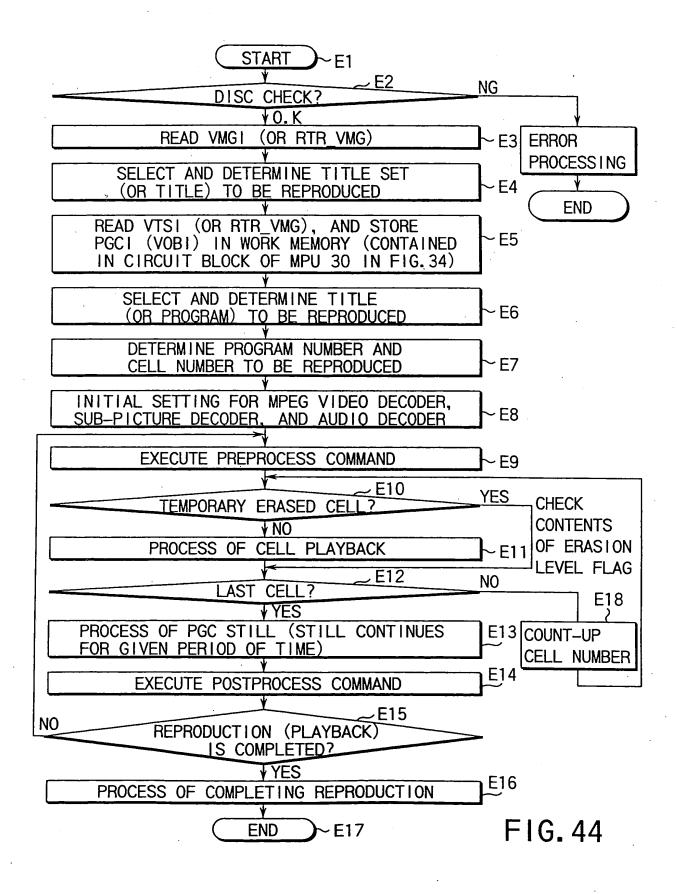
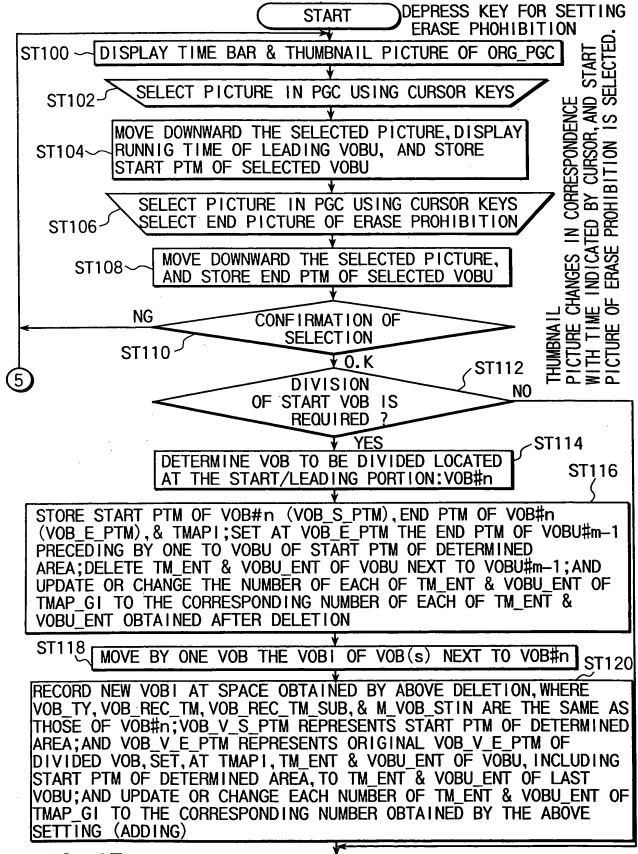


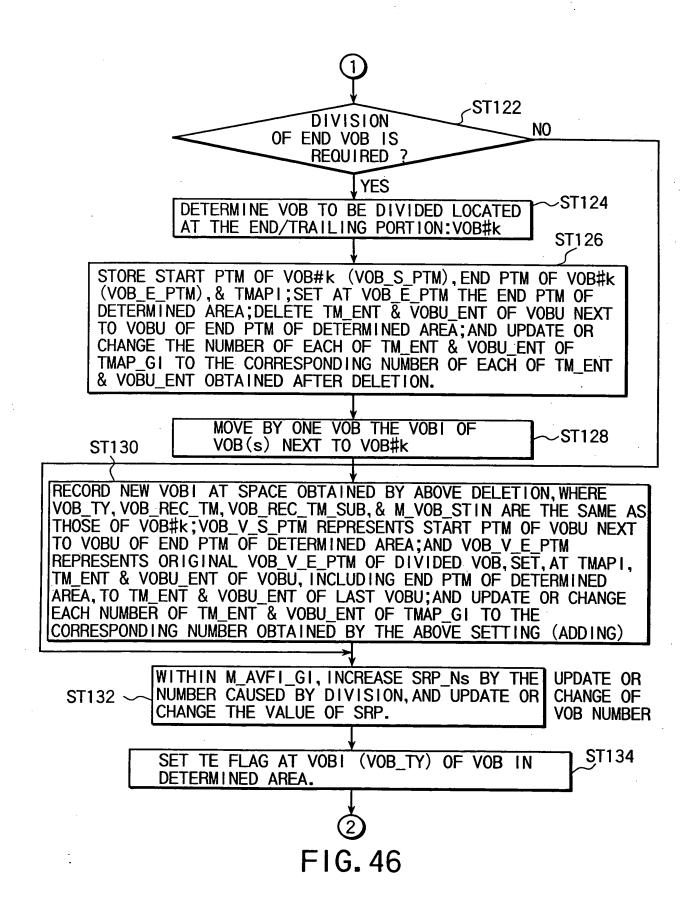
FIG. 43



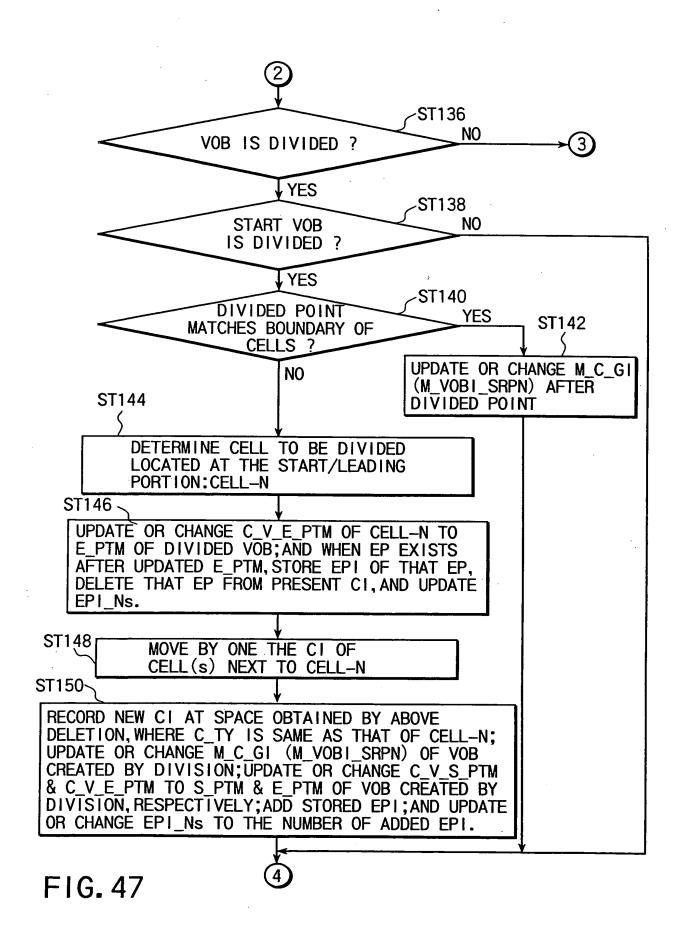


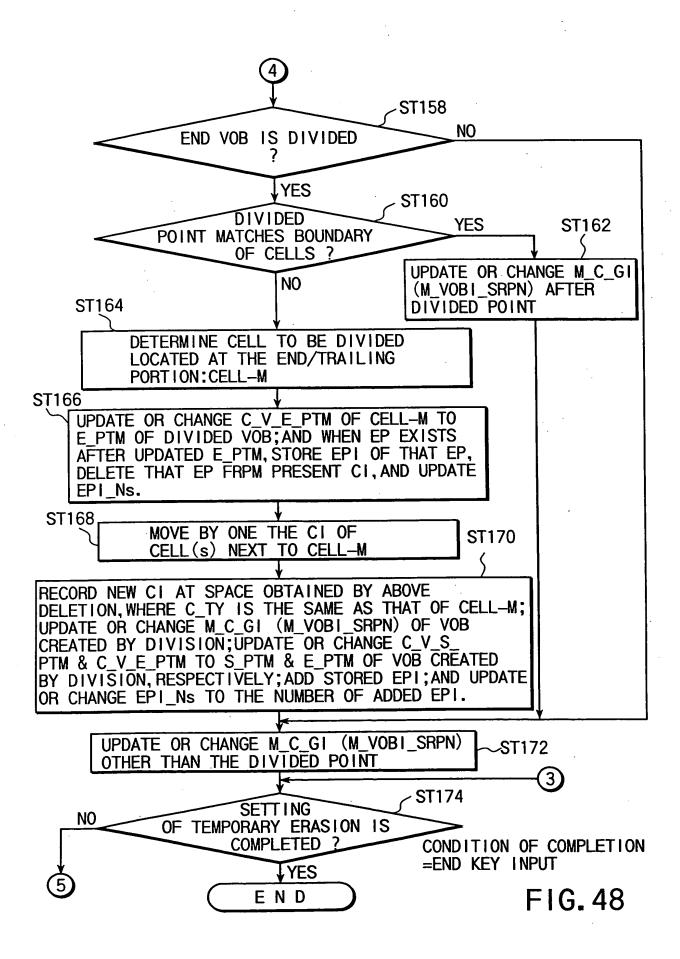


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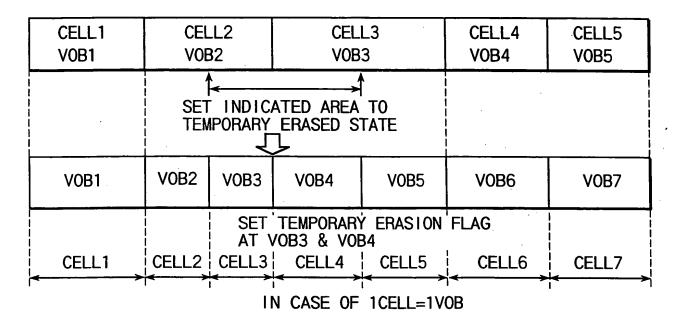


FIG. 49

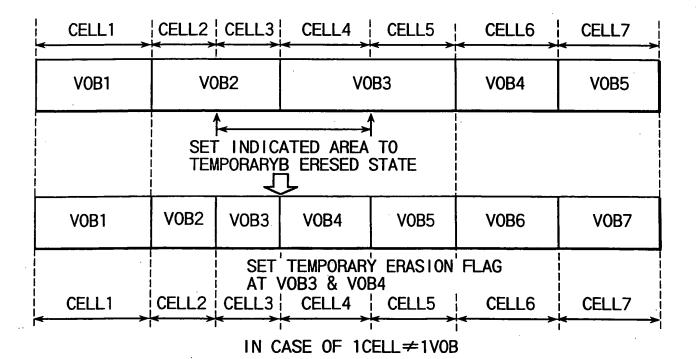


FIG. 50